

Technical Report
Auction 83 Long Form Application
NEW 237D.AP Minor Amendments

This technical report is submitted for the 237D application at Wynne, AR, FCC file no. BNPFT-20030313BBT, and includes minor amendments. A move to channel 238 with corresponding changes in tower site and antenna are requested for the translator to serve as a fill-in to rebroadcast the primary KTRQ(FM) 272C2 facility at Colt, AR, FCC facility I.D. 67701. The proposed site change is not within 39 km (38.5 km rounded) of any point on the Memphis 30 x 30 market grid, and not located in a county of the Memphis or any other top 50 ARB metro markets. However, in an abundance of caution, an LPFM preclusion showing is included as Exhibit 1 to the application.

NEW 237D Modification Analysis:

An overlap study in exhibit E-1 shows the NEW 237D modification to channel 238 at its new site will not cause any interference overlap to existing facilities.

The translator is to be relocated to the existing tower, ASR no. 1041413, at coordinates:

35 11 59N 90 43 22W NAD 27.

A BEXT TFC2K single bay non-directional antenna will be mounted at a COR AGL of 67 meters, 189 meters AMSL, 112 meter HAAT (30 second FCC terrain data with 12 radials) and operate at an ERP of 0.250 kW. The NEW 237D modification 60 dBu F(50-50) contour overlaps the original application 60 dBu contour and is contained within the primary KTRQ(FM) 60 dBu contour (exhibit E-2).

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Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

RF Exposure Calculation:

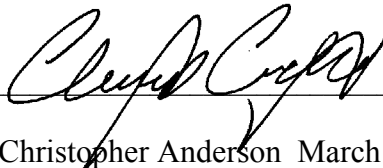
The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (distance to radiation center in meters}^2\text{)}}$$

Using a worst-case vertical (F) factor of 1.00, the resulting RF value is 3.95 $\mu\text{W}/\text{cm}^2$ to the ground and is below 5% of the 200 $\mu\text{W}/\text{cm}^2$ maximum permissible for general public exposure requiring consideration.

Conclusion:

It is concluded that the NEW 237D modification complies with all Commission rules and policies.



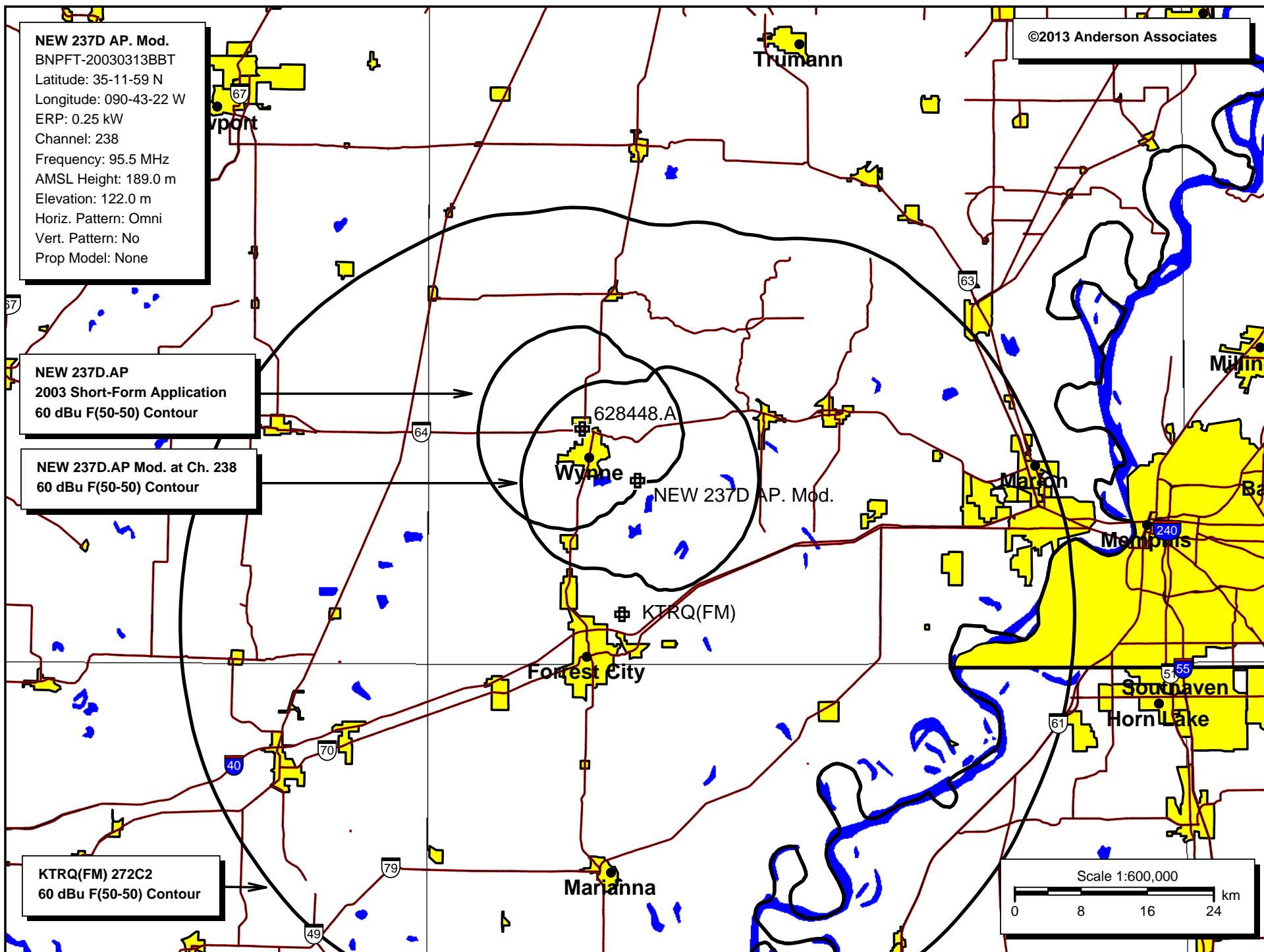
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E-1 NEW 237D.AP Mod. Overlap Study

REFERENCE		CH# 238D - 95.5 MHz, Pwr= 0.25 kW, HAAT= 112.0 M, COR= 189 M								DISPLAY DATES		
35 11 59.0 N.		Average Protected F(50-50)= 13.6 km								DATA 03-14-13		
90 43 22.0 W.		Omni-directional								SEARCH 03-15-13		
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*	
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)	
238A	1504974	APP	ZCX	182.0	78.91	34 29 19.8	6.000	87.1	28.4	-21.2*	8.4	
Elaine			AR	2.0	BNPH20120620ABU	90 45 11.8	100	156	Roberson, Alfred	'pat'	L	
237D	628448	APP	C	313.1	9.12	35 15 21.0	0.250	13.3	9.5	-17.5*	-20.5*	
Wynne			AR	133.1	BNPFT20030313BBT	90 47 46.0	84	161	East Arkansas Broadcasters			
238A	1496454	APP		182.5	90.89	34 22 52.0	6.000	86.3	28.0	-8.4	21.4	
Elaine			AR	2.4	BSFH20120112AGX	90 45 56.0	100	148	Roberson, Alfred	'pat'	L	
238A	AU9328940	VAC	N	182.5	90.89	34 22 52.0	6.000	86.3	28.0	-8.4	21.4	
Elaine			AR	2.4	RM9672	90 45 56.0	100	148	Phillips County Broadcasti			
237C3	KVHU	LIC	CX	272.8	69.80	35 13 41.0	14.000	59.7	39.9	-3.8	8.9	
Judsonia			AR	92.4	BLH20060822AIK	91 29 19.0	134	193	George S. Flinn, Jr.			
239A	WHAL-FM	LIC	CX	95.7	68.82	35 08 09.0	6.000	43.7	28.3	10.5	18.6	
Horn Lake			MS	276.2	BLH20040519AEO	89 58 17.0	88	165	Cc Licenses, Llc			
240C2	KWHF	CP	NCX	354.5	66.35	35 47 42.0	40.000	5.7	51.0	47.5	14.3	
Harrisburg			AR	174.5	BPH20110718ACO	90 47 35.0	143	226	East Arkansas Broadcasters			
240C2	KWHF	LIC	NCX	354.5	66.35	35 47 42.0	34.000	5.5	49.8	47.8	15.5	
Harrisburg			AR	174.5	BLH20031017ABG	90 47 35.0	149	228	East Arkansas Broadcasters			
237A	WEBL	CP	NCX	120.5	76.03	34 51 05.0	2.200	44.1	29.2	17.6	25.0	
Coldwater			MS	300.9	BPH20111102AIY	90 00 19.0	168	258	Memphis First Ventures, L.			
238C1	KJEZ	LIC	CX	10.8	186.17	36 50 50.0	100.000	153.3	57.2	18.8	81.7	
Poplar Bluff			MO	191.0	BMLH20040517ADE	90 19 52.0	125	245	Mrr License Llc			
239C	KSSN	LIC	CY	255.1	167.46	34 47 57.0	100.000	133.4	89.3	20.1	56.8	
Little Rock			AR	74.0	BLH19831117BH	92 29 29.0	507	632	Cc Licenses, Llc			
237A	WEBL	LIC	NCX	123.3	79.39	34 48 22.0	3.400	43.7	28.7	21.4	29.0	
Coldwater			MS	303.7	BMLH20070910ACT	89 59 47.0	134	217	Memphis First Ventures, L.			
237D	K237FI	LIC	DC	358.5	66.49	35 47 56.0	0.250	22.7	14.9	30.4	33.9	
Jonesboro			AR	178.5	BLFT20120509AFJ	90 44 31.0		243	East Arkansas Broadcaster			
241C3	WIVG	LIC	ZCX	135.7	73.33	34 43 36.0	4.100	3.5	40.0	55.7	32.2	
Tunica			MS	316.0	BLH20070802AAI	90 09 43.0	246	312	Flinn Broadcasting Corpora			
235C3	WKVF	LIC	NCX	93.3	82.18	35 09 16.0	1.600	2.5	35.2	65.2	45.8	
Bartlett			TN	273.8	BLED201111005AIS	89 49 20.0	289	379	Educational Media Foundati			
238A	WOXD	LIC	CN	132.0	148.17	34 18 10.0	6.000	86.1	27.8	47.9	71.5	
Oxford			MS	312.7	BLH19990203KE	89 31 25.0	100	222	Taylor Communications, Inc			
292C3	KJBX«	LIC	ZCX	7.8	61.28	35 44 49.0	25.000	42.4	12.3	11.5R	49.8M	
Cash			AR	187.8	BLH20110201AEH	90 37 50.0	95	168	Saga Communications Of Ark			

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
""affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

E-2 NEW 237D.AP Mod. Contour Plot



NEW 237D.AP Mod. Tower

ASR Registration Search

Registration 1041413

 [Map Registration](#)

Registration Detail

Reg Number	1041413	Status	Constructed
File Number	A0048815	Constructed	01/01/1990
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	35-11-59.0 N 090-43-22.0 W	Address	0.16 KM E OF HWY 284 ON CROSS CO RD 270
City, State	WYNNE , AR		
Zip	72396	County	CROSS
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
121.9	68.5
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
190.4	67.0

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1H

FAA Notification

FAA Study	95-ASW-1169-OE	FAA Issue Date	09/15/1995
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Owner & Contact Information

FRN	Owner Entity Type
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Owner

EAST ARKANSAS BROADCASTERS INC DBA = RADIO STATION KWYN P.O. Box 789 WYNNE , AR 72396-0789	P: (870)238-8141 F: E:
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Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	02/06/1998
Purpose	New	Entered	03/11/1998